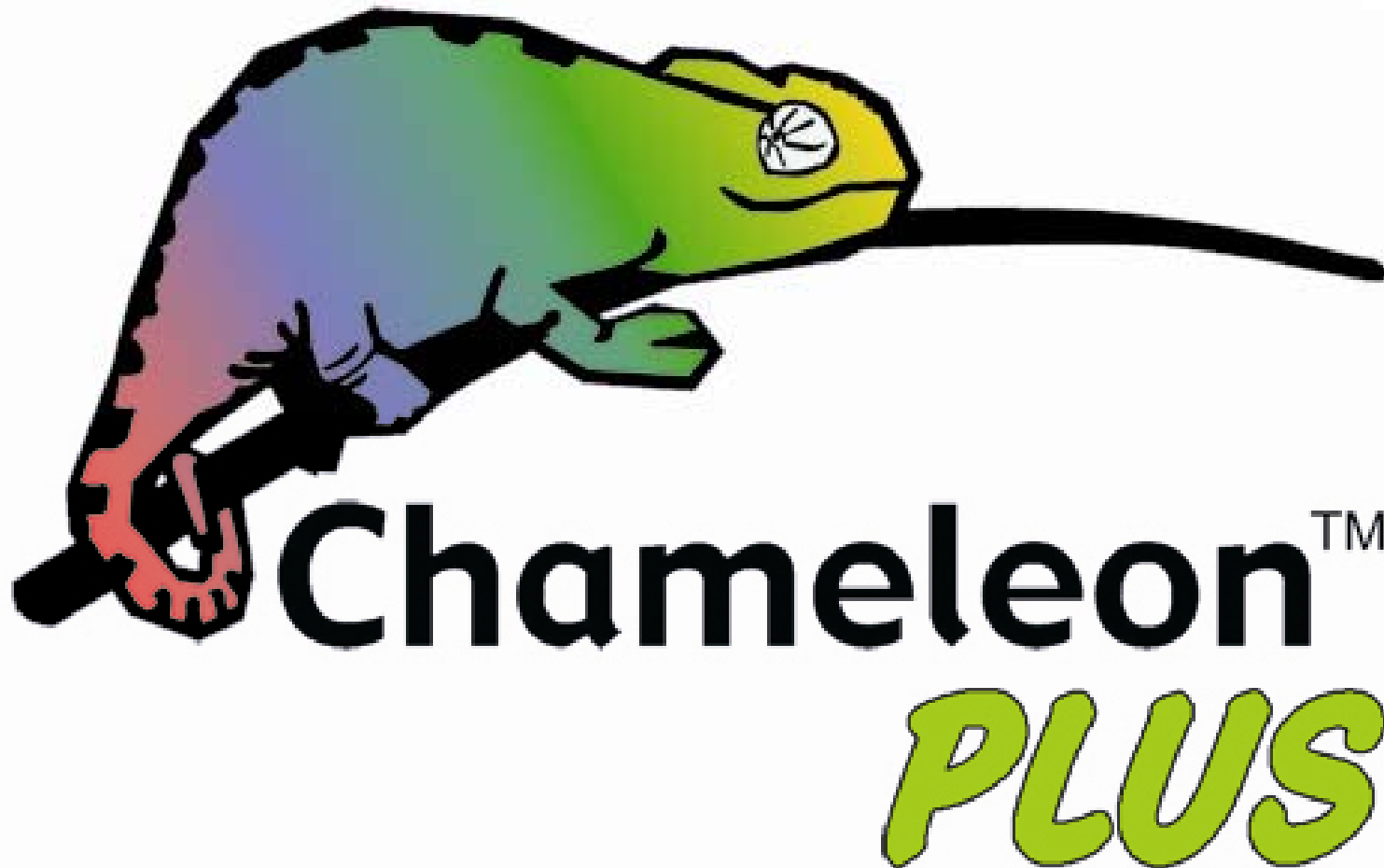
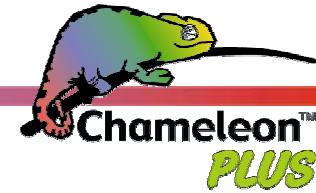


Launch Chameleon Plus 27-07-2010

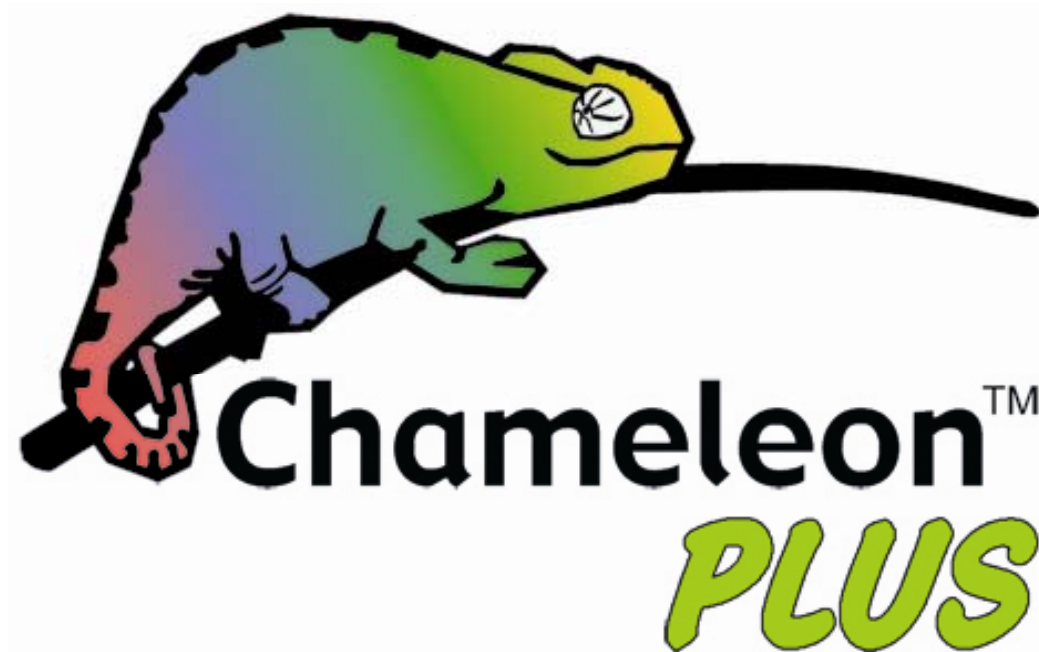
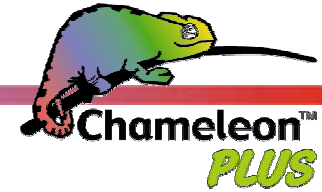


Launch Chameleon Plus



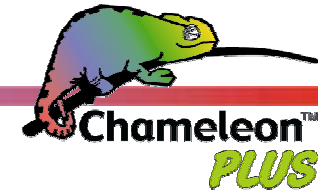
- P** - More **P**reventive features and safety
- L** - More **L**onger Lasting and robust
- U** - More **U**ser friendly operation
- S** - More **S**ervice friendly construction

Launch Chameleon Plus



How does the Chameleon Plus range look now?

The Chameleon PLUS Range



Floor and Wall mounted booster systems:



(BF3+/BF4+) BF8+

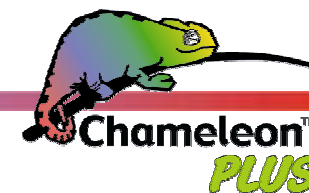


BW3+



BW4+ / BW7+

The Chameleon PLUS Range



Regardless of process type, Chameleon PLUS has a range to suit your needs. Two series are available:



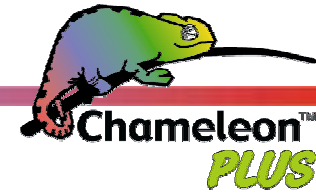
**Professional
Series**



**Advanced
Series**



New general improvement



New general display (Professional and Advanced, Single boosters and Main Stations)

Easy mounted from front

Now with Infra-Red connection on front

All Chameleon PLUS with time and date

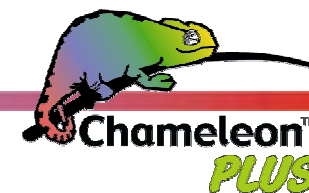


Chameleon PLUS Software Features



	Professional	Advanced
Feature	MM/BW3	MP/MA/BF/BW4/BW7
Adjustable post run time 5-60 sec.		X
Dry run protection 0,5 bar not adjustable	X	
Adjustable dry run level 0,5-4,0 bar		X
Acceleration ramp adjustable 3-10 sec.		X
Selectable Startup method flow or pressure 3-20 bar		X
Auto block adjustable 10-50L/min		X
Adjustable pressure 10-25 bar (BW7 = 10-22 bar)	X	X
High/low pressure 10-25 bar (BW7 = 10-22 bar)		X
Quick start 5-30 bar/sec.		X
Readout of sensors and pump (pump state, pump top pressure/temp., supply pressure and flow Status)	X	X
readout of errors	X	X
Auto off delay adjustable 5-60 min.	X	X
I/O ports		X
Tank control		X
Date and time	X	X
Service text menu		X
Backlight intensity		X
Display contrast		X
Machine info (SW=Soft Ware, HW=Hard ware, CT=Controller Type/SW)	X	X
Total counter (running) Power and Hours		X
Trip counter (running) Power and Hours		X
Firmware upgrade possible through IR or cable	X	X
Infrared communication IR connection in front	X	X

New general improvement



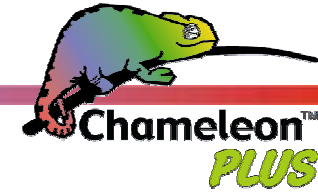
New suction hose and filter
Item No. 110001214

The length of the suction
pipe will ensure filter at
the bottom of the can

The length of the hose
must be cut, so it fits to
the bottom of the can

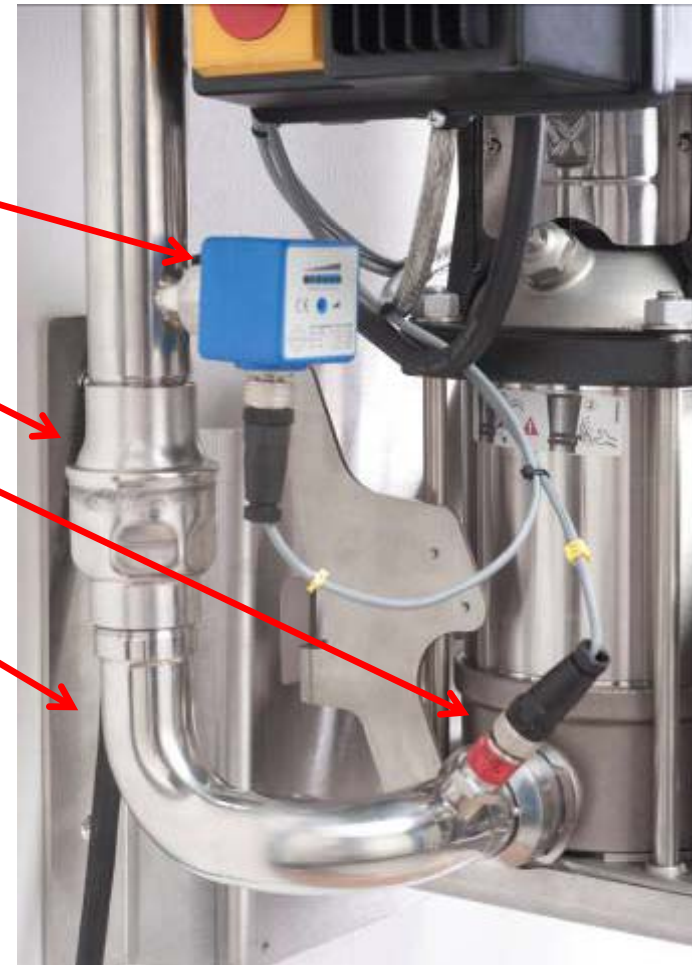


Chameleon PLUS Advanced BW4+/BW7+

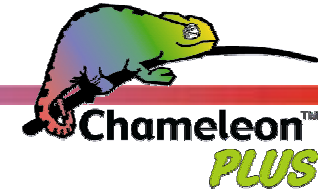


New inlet manifold and new sensors

- New flow sensor – easy to adjust
- New non return valve for water
- New Pressure sensor for inlet water
- New stainless steel inlet manifold
- New Pressure sensor for outlet pressure to control frequency controlled pump



Chameleon PLUS Advanced

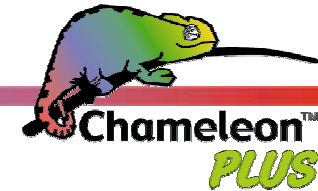


New controller and program features

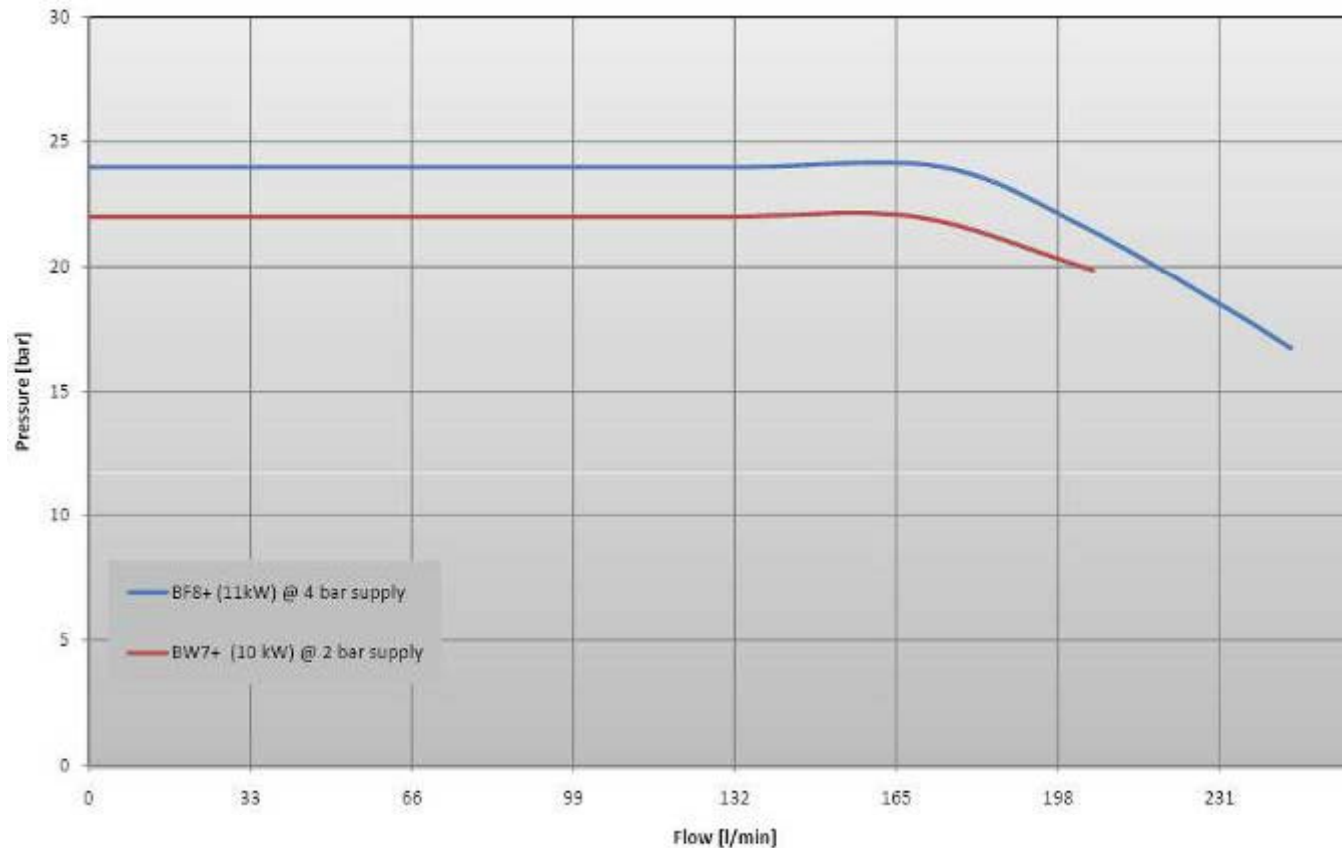
- Intelligent dry run protection adjustable 0,5 - 4,0 bar
- Pressure is 20 bar + inlet pressure with max. 25 bar.
For Dual pressure max. is 40 bar
- Adjustable Pressure between 10 and 25 bar.
For Dual Pressure 10 and 40 bar.
- Error log which can be downloaded
via new Interface connection
- Automatic stop when not used, adjustable between 5-60 min.
- Possible to activate pressure start, adjustable 3-20 bar
- The quick start is now standard in all advanced Main Stations.
Adjustable 5-30 bar/sec.



Chameleon PLUS Booster BW7+ and BF8+



Pumpcurve 5-9 and 5-14



BF8+ :

- Pump 5/14
- Outlet = 20 bar + inlet
- Outlet = max 25 bar
- Max: 8 users.

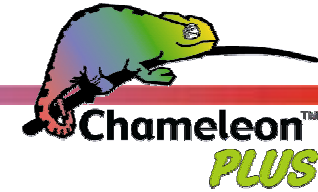
BW7+:

- Pump 5/9
- Outlet = 20 bar + inlet
- Outlet = max 22 bar
- Max: 7 users.

BF8+ : up to max. 8 users, ΔP impeller lower due to more impeller.

BW7+: up to max. 7 users, above ΔP impeller, with max flow, is too high.

Chameleon PLUS Advanced



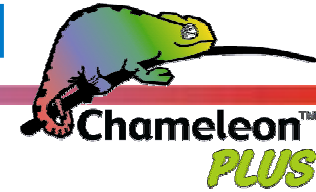
Stainless steel cover



Self diagnose system when error

IO connection for easy program change

Chameleon multi pump Boosters upgraded



Booster BF16-2 / BF48-6

New inlet pipe system

New flow sensor with light indicator

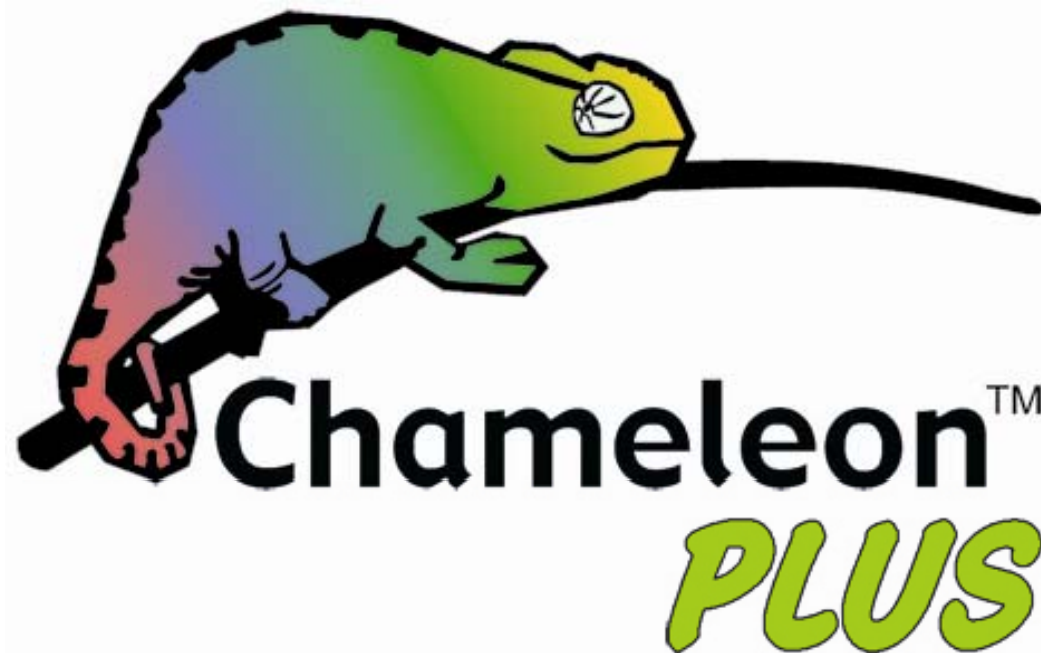
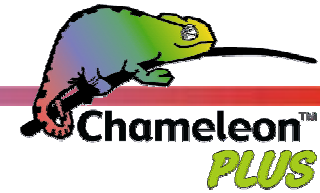
New pressure and temperature sensors in stainless steel

New program 3.00 for CRN 5-14 pump

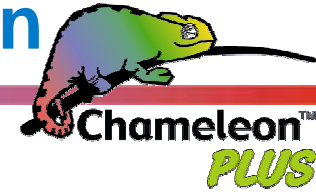
Pump pressure is 22 bar



Chameleon PLUS Professional



Chameleon PLUS Professional Main Station

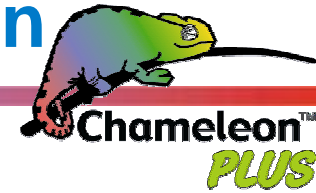


Robust and service friendly integrated satellite

- New design of the internal block
- All parts are screwed and fastened to the back side
- Professional Main Station can be used with 10 - 25 bar pressure
- Inspection under pressure possible by taking off cover
- Easy to access and service
- New ergonomic outlet handle



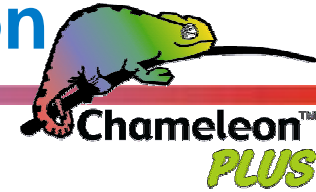
Chameleon PLUS Professional Main Station



Parts included:

- Nozzles for operation
- Bracket for mounting
- Filter
- Union for connection
- Chemical limit nozzles
- Installation manual
- Service manual
- Spare parts list
- User guide
- Suction hose and filter
- Mail coupling part
- Flush pipe system warning

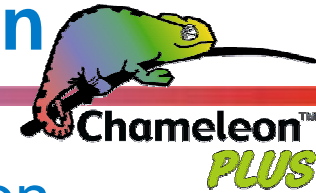
Chameleon PLUS Professional Main Station



New controller and program features

- Intelligent dry run protection now also for Professional. Set 0,5 bar.
- Pressure is 20 bar + inlet pressure, max 25 bar outlet pressure.
- Adjustable outlet pressure between 10 and 25 bar.
- Read error log by Service Technician
- Automatic stop when not used, adjustable between 5-60 min.

Chameleon PLUS Professional Main Station



Professional Main Station: complete cleaning station

The robust economic
cleaning station

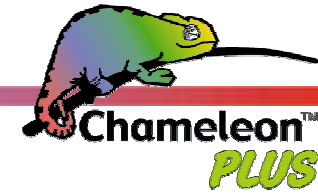
Easy and simple to use

Strong ABS cover

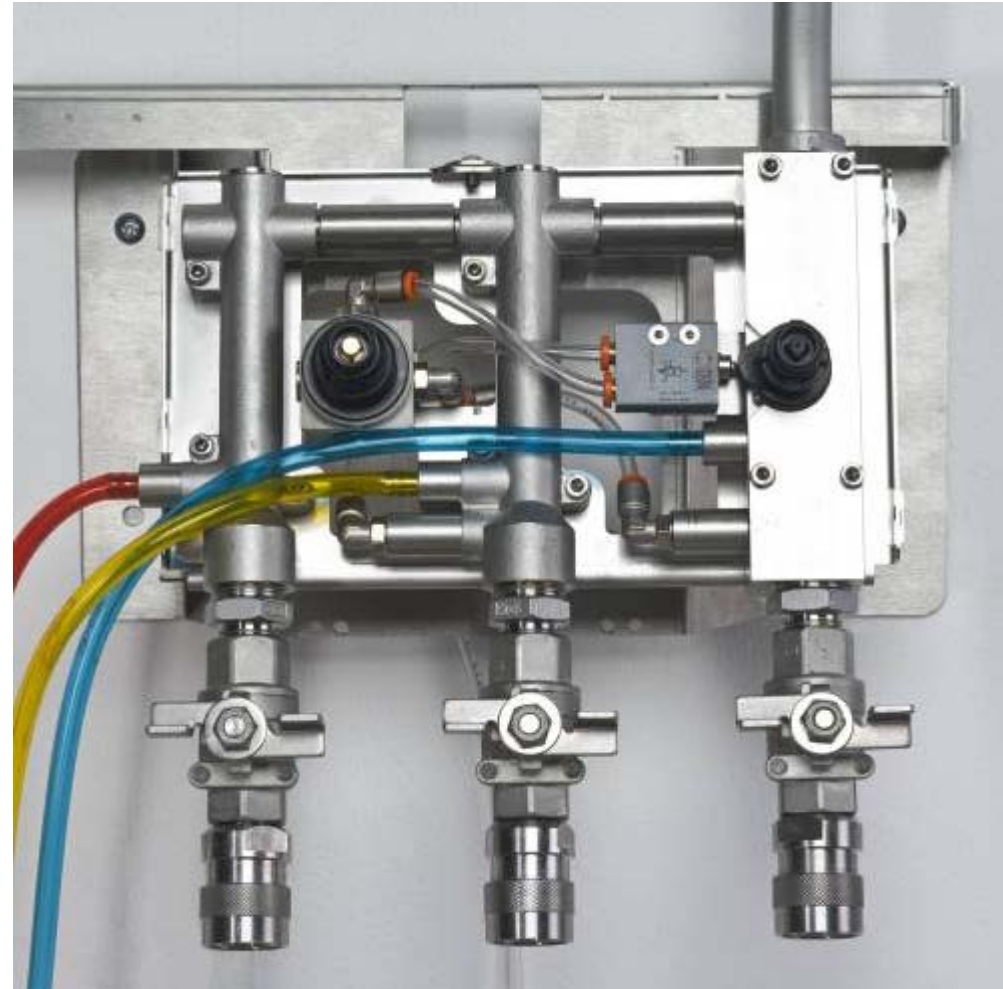
Built-in holding place for
suction lance.



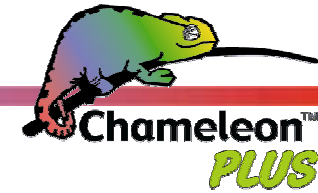
New Professional features Satellite



- New design of the internal block
- All parts are screwed and fastened to the back side
- Professional Satellite can be used with 10 - 40 bar pressure
- Inspection under pressure possible by taking off the cover
- Block turned for easy access
- High serviceability
- New ergonomic outlet handle



Chameleon PLUS Professional Satellite



The Professional Satellite is a safe and secure cleaning station. It will close for the air in rinse position.



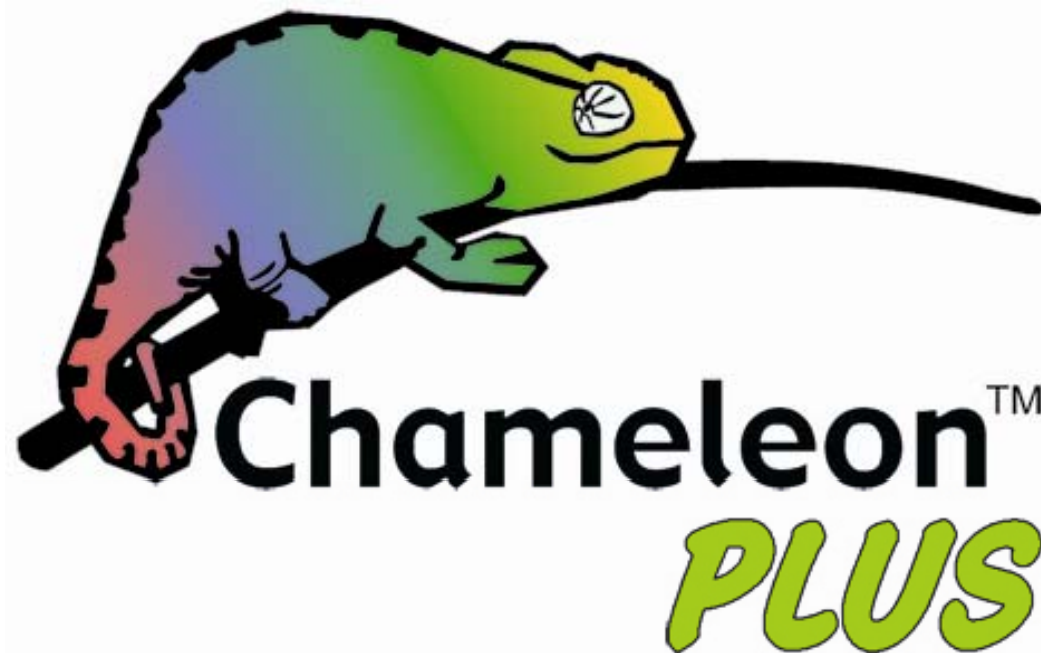
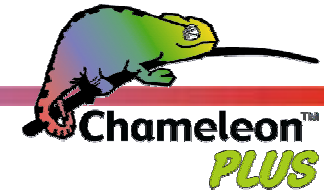
Parts included:

- Nozzles for operation
- Union for connection
- Chemical limit nozzles
- Installation manual
- Service manual
- Spare parts list
- User guide
- Suction hose and filter
- Mail coupling part
- Flush pipe system warning

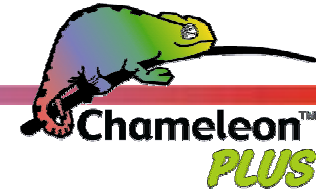


The professional Satellite can also be delivered as pre diluted Satellite with up to 2 Pre-Diluted lines.

Chameleon PLUS Advanced



Chameleon PLUS Advanced Main Station

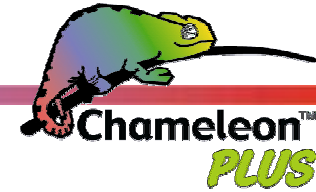


New installation of the advanced block

- Repositioning of the advanced block
- Easy access to chemical non return valves
- Advanced Main Station can be used with 10 - 25 bar pressure. Dual Pressure up to 40 bar.
- Easy to access and service
- New ergonomic outlet handle

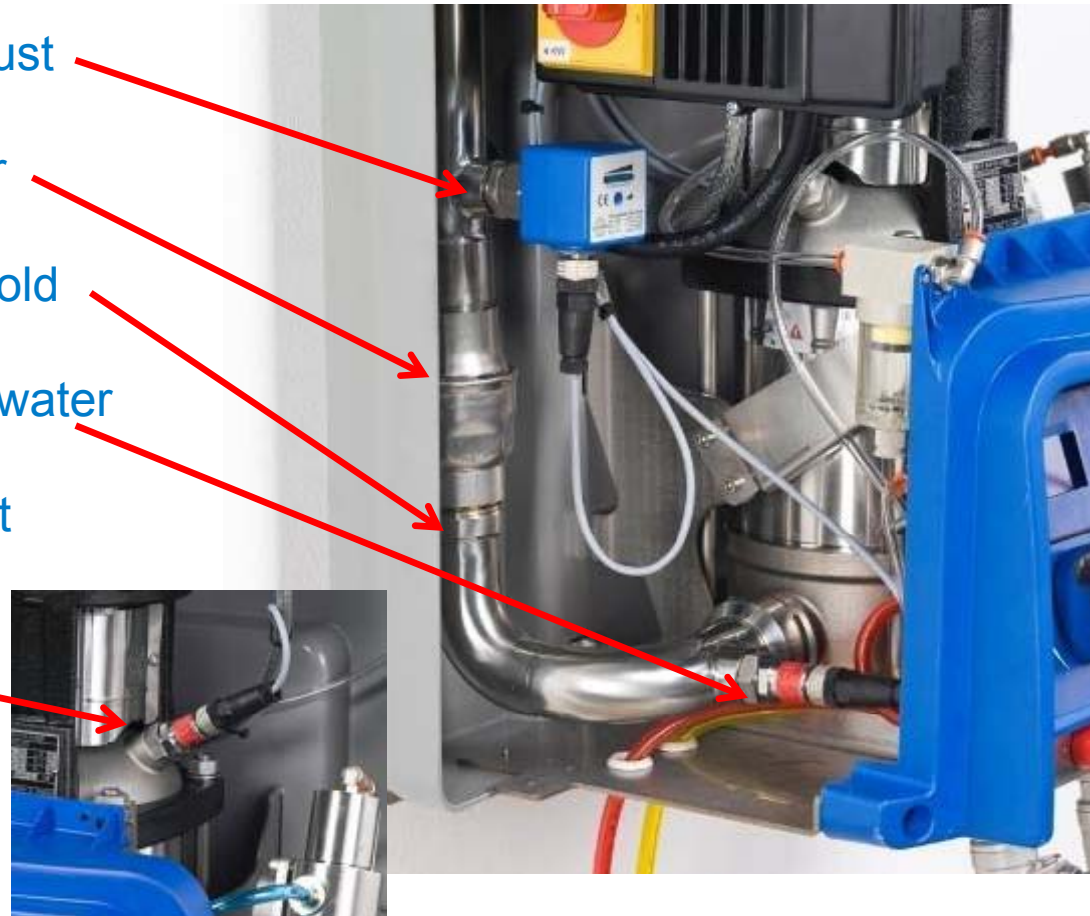


Chameleon PLUS Advanced Main Station

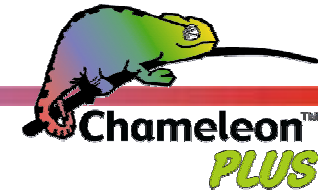


New inlet manifold and new sensors

- New flow sensor – easy to adjust
- New non return valve for water
- New stainless steel inlet manifold
- New Pressure sensor for inlet water
- New Pressure sensor for outlet pressure to control frequency controlled pump



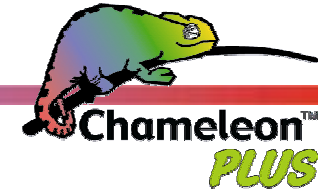
Chameleon PLUS Advanced Main Station



Parts included:

- Nozzles for operation
- Bracket for mounting
- Filter
- Union for connection
- Installation manual
- Service manual
- Spare parts list
- User guide
- Suction hose and filter
- Mail coupling part
- Flush pipe system warning

Chameleon PLUS Advanced Main Station



Advanced Main Station: complete cleaning station

Stainless steel cover

Pneumatic operated switch block

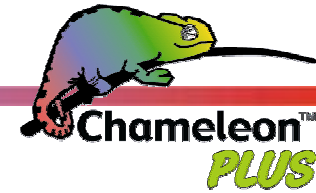
Optional: automatic change between
rinse and detergent foam

Self diagnose system when error

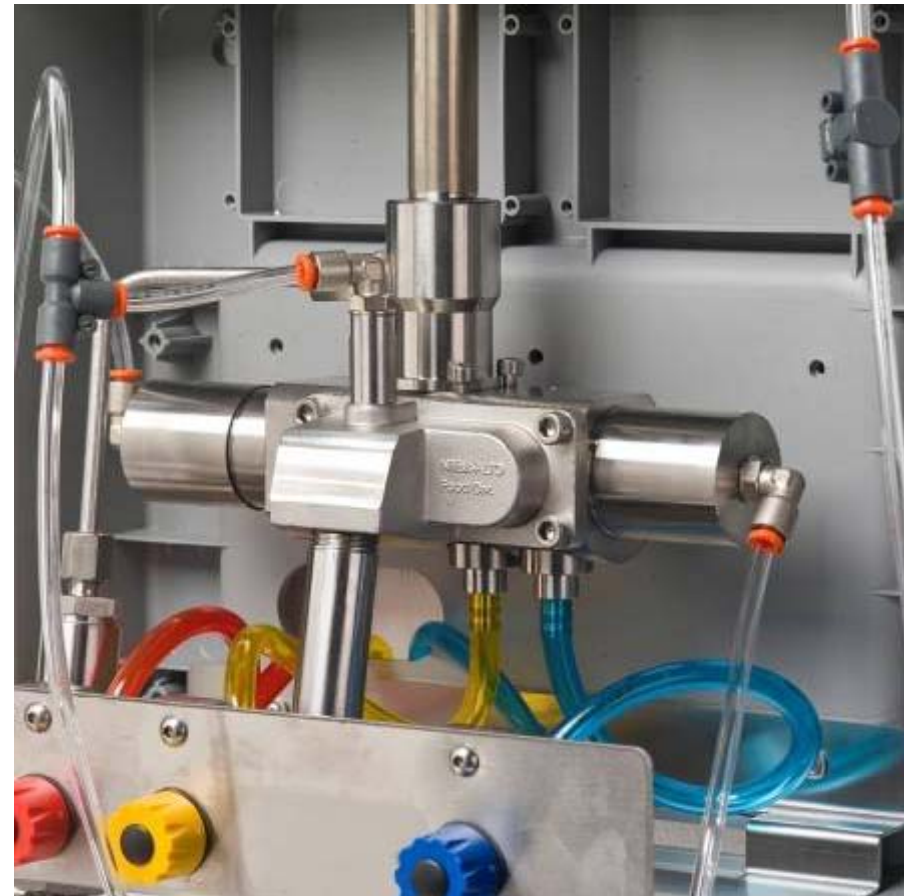
IO connection for easy program
change



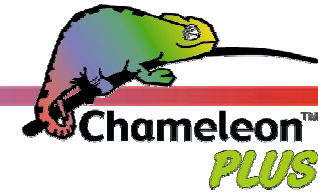
Chameleon PLUS Advanced Satellite



- New vertical positioning of the block
- Easy access to chemical non return valves
- Advanced Satellite can be used with 10 - 40 bar pressure
- Easy to access and service
- New ergonomic outlet handle



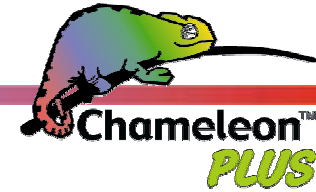
Chameleon PLUS Advanced Satellite



Parts included:

- Nozzles for operation
- Union for connection
- Installation manual
- Service manual
- Spare parts list
- User guide
- Suction hose and filter
- Mail coupling part
- Flush pipe system warning

Chameleon PLUS Advanced Satellite



Advanced Satellite: complete cleaning station

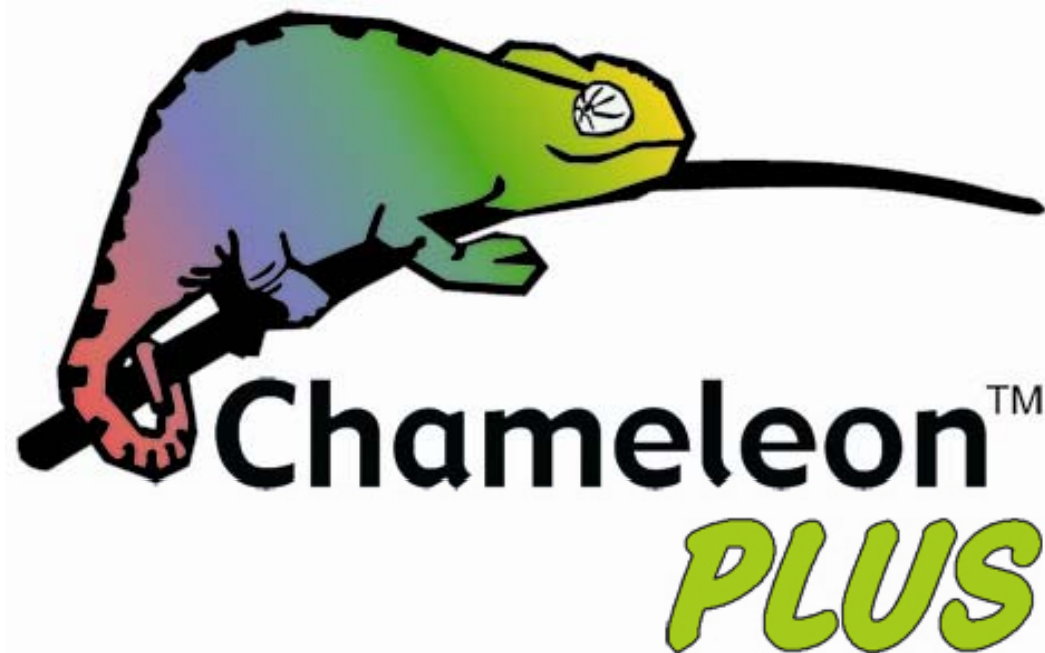
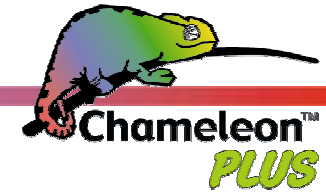
Stainless steel cover

Pneumatic operated

Optional automatic change
between rinse and detergent
foam



Chameleon PLUS



The “new” Items and numbers!



All supplier item codes will be changed: 0649401 → 110000975

- Unit will be indicated with new “Chameleon Plus”-logo in front.
- Model number on name plate will be changed to SP21+

EBS-ordering system:

- After negotiation with MDO and Purchase, it is decided to set-up new EBS-codes for the new equipment, to keep history of old equipment.

Purchase Price/ UOM / Sales Price stay the same.

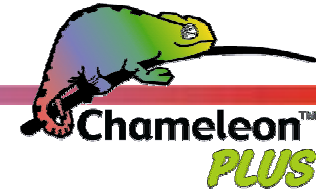
- Management External Supplier (create) with country support (release).

Local-ordering system (non-EBS-countries):

- Local to be decide how to manage. Change local code or create new?

Item No.	EBS Item Nos.	New Item No.	New EBS Item Nos.	Model	Description
0649101	10015558	110001005	10201166	MP321+	Mainstation adv.man. 3 users 2 chem. 1 air
0649102	10016774	110001006	10201167	MP322+	Mainstation adv.man. 3 users 2 chem. 2 air
0649103	10015548	110001007	10201168	MP332+	Mainstation adv.man. 3 users 3 chem. 2 air
0649104	10016773	110001008	10201169	MP333+	Mainstation adv.man. 3 users 3 chem. 3 air
0649106	10016772	110001009	10201170	MP421+	Mainstation adv.man. 4 users 2 chem. 1 air
0649107	10016804	110001010	10201171	MP422+	Mainstation adv.man. 4 users 2 chem. 2 air
0649108	10016780	110001011	10201172	MP432+	Mainstation adv.man. 4 users 3 chem. 2 air
0649109	10015564	110001012	10201173	MP433+	Mainstation adv.man. 4 users 3 chem. 3 air
0649401	10013378	110000975	10201190	SP21+	Satellite adv.man. 2 chem. 1 air
0649402	10013377	110000976	10201178	SP22+	Satellite adv.man. 2 chem. 2 air
0649403	10015552	110000977	10201179	SP32+	Satellite adv.man. 3 chem. 2 air
0649404	10016797	110000978	10201180	SP33+	Satellite adv.man. 3 chem. 3 air

The “new” Items and numbers!



New spare parts!

Based on the changes on the different units, new spare parts will be introduced:

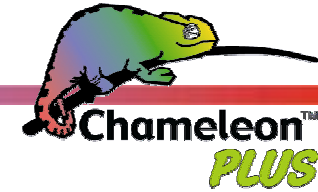
Across the different lines we will be releasing 93 new item numbers, where

- 50% items will be related to Professional line, and
- 30% items will be related to Advanced line, and
- 10% items will be across the different lines

Single boosters are included in the above figures

This means that,

The “new” Items and numbers!



Items in Ordering systems must be setup

EBS: Management External Suppliers will create and extend, needed parts, to all countries.

Non-EBS: local to be set up. Price list will be forwarded soon.

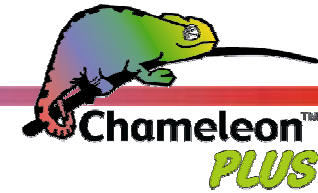
Service setup must be prepared

The changes must be introduced to the local service organizations.

Minimum required local service stock must be prepared?

Local documentation (Ecolab files) must be adapted with the new items

Technical documentation



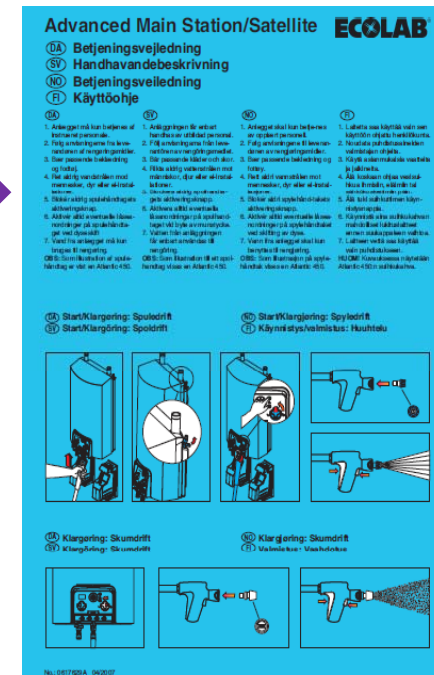
New manuals will be made on all products;

Concerning Boosters, Advanced line and Professional line, so new

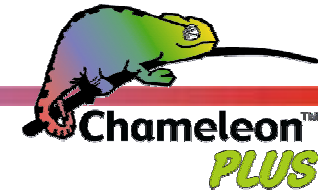
- Installation manual
- Service manual
- Spare part manual

The User guide will not be changed

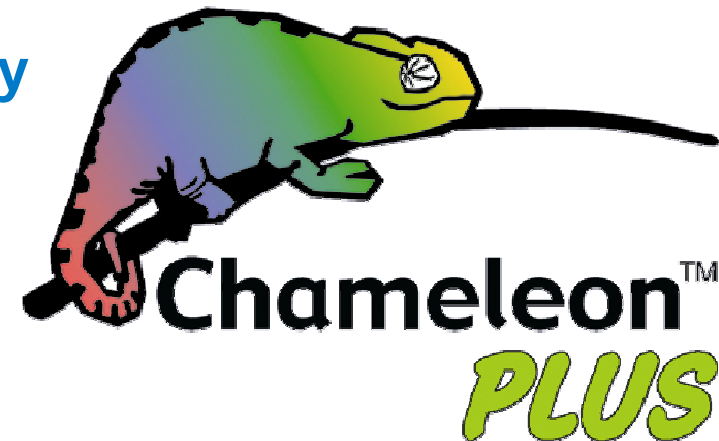
Concerning Boosters and Main stations,
the software manual will also be changed



Launch Chameleon Plus



- P** - More **P**reventive features and safety
- L** - More **L**onger Lasting and robust
- U** - More **U**ser friendly operation
- S** - More **S**ervice friendly construction



You get More with the new Chameleon PLUS

PLUS value for the same money